CLAIMS

What is claimed is:

1. A set-top terminal, comprising:

a tuner for receiving a video input signal;

a video demodulator/descrambler decoder for receiving the video input signal from the tuner; and

a video processing subsystem for receiving the video input signal from the video demodulator/descrambler, the video processing subsystem including a video frequency response filter for adjusting a frequency response of the set-top terminal.

2. The set-top terminal according to Claim 1, further including a microprocessor subsystem operatively coupled to the video processing subsystem, the microprocessor subsystem determining a set of filter coefficients for the video frequency response filter.

3. The set-top terminal according to Claim 2, wherein the set of filter coefficients comprises a set of Finite Impulse Response (FIR) filter coefficients.

4. The set-top terminal according to Claim 3, wherein the FIR filter coefficients are determined by empirical measurements of a degradation of the frequency response of the set-top terminal prior to installation of the video frequency response filter.

5. The set-top terminal according to Claim 3, wherein the FIR filter coefficients are determined by measuring an amplitude of a color burst signal included in the video input signal.

6. The set-top terminal according to Claim 3, wherein the FIR filter coefficients are determined by measuring an amplitude of a multi-burst signal included in the video input signal.

7. The set-top terminal according to Claim 6, further including a memory for temporarily storing at least a portion of the input video signal for measuring the amplitude of the multi-burst signal by the microprocessor subsystem.

8. A method for adjusting a frequency response of a set-top terminal, comprising the steps of:

receiving a video input signal using a tuner;

receiving the video input signal from the tuner using a video demodulator/descrambler decoder; and

receiving the video input signal from the video demodulator/descrambler using a video processing subsystem, the video processing subsystem adjusting a frequency response of the set-top terminal using a video frequency response filter.

9. The method according to Claim 8, further including the step of determining a set of filter coefficients for the video frequency response filter using a microprocessor subsystem operatively coupled to the video processing subsystem.

10. The method according to Claim 9, wherein the set of filter coefficients comprises a set of Finite Impulse Response (FIR) filter coefficients.

11. The method according to Claim 10, wherein the FIR filter coefficients are determined by empirical measurements of a degradation of the frequency response of the set-top terminal prior to installation of the video frequency response filter.

12. The method according to Claim 10, wherein the FIR filter coefficients are determined by measuring an amplitude of a color burst signal included in the video input signal.

13. The method according to Claim 10, wherein the FIR filter coefficients are determined by measuring an amplitude of a multi-burst signal included in the video input signal.

14. The method according to Claim 13, further including the step of temporarily storing at least a portion of the input video signal for measuring the amplitude of the multi-burst signal by the microprocessor subsystem.

15. A method for adjusting a frequency response of a set-top terminal, comprising the steps of:

providing a video input signal to a set-top terminal, the set-top terminal including a video processing subsystem, a microprocessor subsystem, and a memory, the video processing subsystem including a video frequency response filter; and

adjusting a frequency response of the set-top terminal using the video frequency response filter.

16. The method according to Claim 15, wherein the video frequency response filter uses a set of filter coefficients determined by a microprocessor subsystem operatively coupled to the video processing subsystem to adjust the frequency response of the set-top terminal.

17. The method according to Claim 16, wherein the set of filter coefficients are determined by empirical measurements.

18. The method according to Claim 16, wherein the filter coefficients are determined by measuring an amplitude of a color burst signal.

19. The method according to Claim 16, wherein the filter coefficients are determined by measuring an amplitude of a multi-burst signal.